

PARMENOV, K.Ya.

Important anniversary dates in the history of chemistry in
1960. Khim.v shkole 15 no.1:19-23 Ja-F '60.
(MIRA 13:5)

(Chemistry--History)

VAMBEROVÁ, Marta; PARIZKOVÁ, Jana

Evaluation of obesity in children on the basis of measurements of
subcutaneous fat. Česk.pediat. 15 no.3:204-214 Mír '60.

1. Dětská klinika LF MF KU, Praha, přednosta prof. dr. Cizková-
Pisarovcová. Výzkumný ústav tělovýchovy, Praha, red. MUDr.
J. Merhautová. Labor. fysiolog. a patofysiolog. výmeny látok
CSAV, Praha, ved.doc. O. Poupa.
(OBESITY in infancy & childhood)

BODYAKO, M.E. [Bodziako, M.M.]; PARSHINOVICH, V.I.

Recrystallization precipitation of titanium alloys in
induction heating. Vestsi AN BSSR.Ser.fiz.-tekhn.nau.
no.4:47-54 '59. (MIA 13:4)
(Crystallization) (Titanium alloys)

PARKHOMENKO, E..

Piezoelectric effect of rocks and the possibility of using it in
geology. Sov.geol. 2 no.12:101-111 D '59. (MIRA 13:5)

1. Institut fiziki Zemli Akademii nauk SSSR.
(Piezoelectricity) (Geology)

81664

16,6800

S/112/60/000/05/12/023

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1960, No. 5, pp. 324-325.
4.4335

AUTHORS: Rabinovich, Z. L., Gladyshev, A. I., Parkhomenko, I. T.

TITLE: The Element Structure of the C3CM-1 (SESM-1) Special Purpose Computer ¹⁶

PERIODICAL: Sb. tr. Vychisl. tsentra. AN UkrSSR, 1958, No. 3, pp. 45-54

TEXT: The authors describe the system of standard tube elements for the electronic SESM-1 digital computer of the Vychislitel'nyy tsentr AN UkrSSR (Computing Center of the AS UkrSSR) which includes 11 types of elements: shaper, shaper with delay (2 types), flip-flop, coincidence and potential segregation unit (2 types), pulse segregation unit, potential amplifier, cathode follower, pulse - potential gate and coincidence gate utilizing several inputs. Pulse sources of the computer are the magnetic drum and the punched tape, potential sources are represented by the flip-flops. A diagram of the element structure of the computer is given, showing all possible connections between both the standard and the special elements. The pulse amplitude of the computer is 30-50 v with a duration of 1-2 μ sec. The rated values are 40 v and 1.5 μ sec, which

Card 1/2 ^N

PARNENOV, Konstantin Yakovlevich; SHAPOSHNIKOVA A.A., red.

[Chemistry as a school subject in prerevolutionary and
Soviet schools] Khimiia kak uchebnyi predmet v dorevo-
liutsionnoi i sovetskoi shkole. Moskva, Izd-vo APN
RSFSR, 1963. 357 p. (MIRA 17:12)

PAREKHOV, Konstantin Yakovlevich; SHAPOSHNIKOVA, A.A., red.; TARASOVA,
V.V., tekhn.red.

[Chemistry laboratory practice in secondary schools] Khimicheskiy
eksperiment v srednei shkole. Moskva, Izd-vo Akad.pedagog.nauk
BSFSR, 1959. 358 p. (MIRA 12:11)
(Chemistry--Study and teaching) (Chemistry--Experiments)

PARMENOV, Konstantin Yakovlevich; SHAPOSHNIKOVA, A.A., red.;
NOVOSELOVA, V.V., tekhn. red.

[Chemistry as a school subject in prerevolutionary and
Soviet schools] Khimiia kak uchebnyi predmet v dorevo-
liutsionnoi i sovetskoi shkole. Moskva, Izd-vo APN
RSFSR, 1963. 357 p. (MIRA 17:3)

PARMENOV, Konstantin Yakovlevich; SAVEL'YEVA, R.N., red.; DZHATIYEV, S.G.,
tekhn.red.

[Demonstrating experiments in chemistry; general problems of methods]
Demonstratsionnyi khimicheskii eksperiment; obshchie voprosy metodiki.
Izd. 2-oe, dop. Moskva, Gos. uchetno-pedagog. izd-vo M-va prosv.
RSFSR, 1957. 127 p. (MIRA 11:4)
(Chemistry--Experiments)

PARNENOV, K.Ye.

A book about remarkable Russian teacher and chemist. Khim. v shkole
13 no.3:74-75 My-Je '58.
(MIRA 11:5)

1. Institut metodov obucheniya APN.
(Kablukov, Ivan Alekseevich 1857-1942)

DUBOV, A.G.; PARMENOV, K.Ya.

Ways of strengthening school equipment for technical education.
Politekh. obuch. no.10:69-79 O '5'. (MLRA 10:9)

1. Nauchno-issledovatel'skiy institut metodov obucheniya Akademii
Pedagogicheskikh nauk RSFSR.
(Technical education)

PARMENOV, K.Ya.

Chemistry in Soviet schools during forty years. Khim. v shkole 12
no. 5: 50-60 S-0 '57. (MIRA 10:10)
(Chemistry--Study and teaching)

PARMENOV V. I.

USSR / Human and Animal Morphology (Normal and Pathological).
Circulatory System. Blood Vessels.

S

Abs Jour : Ref Zhur - Biologiya, No 9, 1958, No. 40859

Author : Parmenov, V. I.
Inst : Gomel State Ped. Institute

Title : Variations of the Deep Femoral Artery and Their Practical
Significance

Orig Pub : Uch. zap. Gomel'sk. gos. ped. in-t, 1957, vyp 5, 146-151

Abstract : An abnormal origin of the deep femoral artery (DFA) was encountered in 11 out of 443 cases. The DFA originated in three cases from the external iliac artery above Poupart's ligament (3 - 5 cm) and was situated in the vascular lacuna posteriorly and medially to the femoral artery (1 case) or posteriorly and laterally (2 cases). In 6 cases a division of the trunk of the external iliac artery into the femoral and DFA, of almost

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USSR / Human and Animal Morphology (Normal and Pathological).
Circulatory System. Blood Vessels.

S

Abs Jour : Ref Zhur - Biologiya, No 9, 1958, No. 408;9

even caliber, was observed. This took place in 4 cases under the inguinal ligament and in 2 cases at the level of its upper border. In all the cases the DFA was situated outside of the vagina vasorum of the femoral vessels, more frequently - posteriorally and laterally to them. In 2 cases the DFA originated 10 and 11 cm below the inguinal ligament. -- Z. V. Lepina

Card 2/2

68

PARMENOV, V.I., dotsent

Acute intestinal obstruction in relation to the intraperitoneal administration of antibiotics. Sov.med. 26 no.10:58-61 O '62.
(MIRA 15:12)

1. Iz khirurgicheskogo otdeleniya Gomel'skoy zheleznyodorozhnoy bol'nitsy.

(INTESTINES--OBSTRUCTIONS) (ANTIBIOTICS)

PARMENOV, V.I., kand.med.nauk

Comparative data on stomach cancer. Zdrav.Bel. 8 no.11:7-10
N '62. (MIRA 16:5)

1. Zaveduyushchiy khirurgicheskim otdeleniyem Gomel'skoy zhelezno-dorozhnoy bol'nitsy.
(STOMACH—CANCER)

BIM, I.M. (Gomel', ul. Sazonova, d.8); PARMENOV, V.I.

Acute appendicitis with the retroperitoneal position of the appendix. Vest. khir. 91 no.8856-58 Ag'63 (MIRA 17t3)

1. Iz khirurgicheskogo otdeleniya (zav. - dozent V.I. Parmenov) Gomel'skoy zheleznyodorozhnoy bol'nitsy.

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PARMENOV, V.I., dotsent

Anatomical guide for the safe ligation of the vesical artery
in cholecystectomy. Sov. med. 27 no.12:102-103 O '64.

(MIRA 13:11)

1. Khirurgicheskoye otdeleniye (zav.- dotsent V.I. Parmenov)
Gomel'skoy zheleznodorozhnoy bol'nitsy (nachal'nik - A.I.
Tyufyayeva) i kafedra anatomi i fiziologii Gomel'skogo
pedagogicheskogo instituta (zav.- dotsent V.I. Parmenov).

PARMENOV, V.I., dotsent

Infected hydronephrosis of a hypoplastic kidney. Zdrav.
Belor. 6 no. 5:61-62 My '60. (MIRA 13:10)

1. Zaveduyuschiy khirurgicheskim otdeleniyem Gomel'skoy
zheleznodorozhnoy bol'nitsy.
(KIDNEYS--DISEASES)

PARMENOV, V.I., dotsent

Significance of variants of femoral hernia in surgical practice.
Zdrav. Belor. 6 no. 7:39-40 Je '60. (MIRA 13:8)

1. Iz khirurgicheskogo otdeleniya (zaveduyushchiy V.I. Parfenov)
Gamel'skoy zheleznodorozhnoy bol'nitsy.
(HEMIA)

PARMENOV, V.I., dotsent

Cardiac injuries. Khirurgiia no.1:38-45 '62.

(MIRA 15:11)

1. Iz khirurgicheskogo otdeleniya Gomel'skoy zheleznyodorozhnoy
bol'nitsy i kafedry anatomii i fiziology (zav. - dotsent V.I.
Par'menov) Gomel'skogo pedagogicheskogo instituta.
(HEART--WOUNDS AND INJURIES)

3-2-24/32

AUTHOR: Parfenov, V.I., Dotsent and Levitskiy, P.M.

TITLE: X-Ray Method of Instruction at the Natural-Science Departments of Pedagogical Institutes (Rentgenologicheskiy metod v pre-podavanii na yestestvennykh fakultetakh pedagogicheskikh institutov)

PERIODICAL: Vestnik vysshey shkoly, Feb 1957, # 2, p 69 (USSR)

ABSTRACT: The authors state that instruction in anatomic-physiological courses by the natural science physical training faculties of the pedagogical institutes is inadequate. This is due to the fact that the Chairs of Anatomy and Physiology are poorly equipped and use poor methods of instruction. The authors enumerate the deficiencies in teaching anatomy and point to the X-ray method of instruction adopted in 1950 by the Gomel' Pedagogical Institute. The good results achieved are emphasized and the use of X-ray photographs as a means of visual instruction is recommended. It is also suggested that the institutes be supplied with cheap, portable X-ray units. They could also be used successfully in the agricultural institutes when teaching the anatomy of domestic animals.

Card 1/2

DYBOVSKAYA, Irma Konstantinovna, dokt.sent., kand.filol.nauk; PROMTOVA, Irina Andreyevna; SUVOROVA, Vera Vasil'yevna; CHESSKIS, Zoya Borisovna; DEYEV, G.N., red.; MASEVICH, A.G., doktor fiz.-matem.nauk, red.; PARIYSKIY, N.N., kand.fiz.-matem.nauk, red.; TANTSOVA, N.N., kand. tekhn.nauk, red.; TERENT'YEVA, L.V., red.; TYAGUNOVA, Z.I., red.; KRYUCHKOVA, V.N., tekhn.red.

[French-Russian geophysical dictionary] Frantsuzsko-russkii geofizicheskii slovar'. Pod red. G.N. Deeva i dr. Moskva, Glav.re-daktsiya inostr.nauchno-tekhn.slovarei Fizmatgiza, 1960. 374 p.

(Geophysics--Dictionaries) (MIRA 13:9)

(French language--Dictionaries--Russian language)

(Russian language--Dictionaries--French language)

81846
S/033/60/037/03/018/027
E032/E514

3.9000

AUTHOR: Pariyskiy, N.N.

TITLE: The Influence of the Earth Tides on the Secular
Retardation of the Earth's Rotation

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 3,
pp 543-549 (USSR)

ABSTRACT: It is well known that the phase lag of Earth tides
relative to the theoretical phase calculated for a
perfectly elastic Earth leads to a retardation of the
Earth's rotation. The problem was recently discussed
by Jeffreys (Ref 1), who concluded that Earth tides
due to the moon can explain no more than 1% of the
secular retardation of the Earth's rotation. However,
this deduction is based on very approximate estimates
of the relaxation times. It is therefore of interest
to try and determine the lag of Earth tides from
observations. Modern gravimeters can be used to
determine this lag to an accuracy of $\pm 2'$ or $\pm 0.5^\circ$
in the diurnal waves, $\pm 1^\circ$ in the phase of semidiurnal

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the Earth's Rotation

waves. Analysis of recent observations shows that there is a small lag of the order of 1-4°. The present author considers the effect of this lag on the Earth's rotation. It is shown that the moment of forces through which the tidal deformation of the planet acts on the satellite (moon) is given by Eq (5), where f is the gravitational constant, r_0 is the radius of the Earth, m is the mass of the satellite and R is its distance from the Earth's centre. This expression is obtained without the limitations which have previously been imposed on the internal structure of the planet (Jeffreys - Refs 1 and 18). The coefficient k is determined by the true density distribution and must be deduced from observations. In the presence of a lag in the Earth tides, the satellite will react on the planet, producing a couple tending to retard its rotation. This couple is numerically equal

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The Influence of the Earth Tides on the Secular Retardation of
the Earth's Rotation

to that given by Eq (5) and since it is also equal to the rate of change of the angular momentum of the planet, the secular variation in the angular velocity of the planet is given by Eq (7), where J is the moment of inertia of the Earth. After a brief review of present information on the constant k , it is assumed for the purposes of approximate calculation that $k = 0.30$. If, moreover $r^3/R = 1/60.1$

$$J = 8.12 \cdot 10^{44} \text{ g/cm}^2 \quad R = 3.84 \cdot 10^{10} \text{ cm}$$

$$m = M/81.3 = 7.36 \cdot 10^{25} \text{ g} \quad f = 6.67 \cdot 10^{-8} \text{ cm}^3 \text{ g}^{-1} \cdot \text{sec}^{-2}$$

$$M = 5.98 \cdot 10^{27} \text{ g}$$

then the rate of change of angular velocity is found to be

$$d\Omega/dt = 6.65 \cdot 10^{-21} \sin 2\theta \text{ rad/sec}^2 \quad (8)$$

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S/033/60/037/03/018/027
E032/E514

The Influence of the Earth Tides on the Secular Retardation of
the Earth's Rotation

If one adopts the values for secular accelerations of the moon and sun as given by Spencer Jones (Ref 14), then it is found that the total effect of the secular retardation of the Earth's rotation corresponds to a lag in diurnal tidal waves of 2.1° and in semidiurnal waves of 4.2° . These figures take into account the additional acceleration of the Earth's rotation due to internal causes. Acknowledgment is made to M. S. Molodenskiy for valuable advice. There are 1 table and 18 references, 6 of which are Soviet, 4 French and 8 English.

ASSOCIATION: Institut fiziki Zemli Akademii nauk SSSR
(Institute of Physics of the Earth, Ac.Sc., USSR)

SUBMITTED: December 2, 1959

Card 4/4

4

PARMENOV, V.I.

Use of barbamil in potentiated local anaesthesia. Khirurgija, Moskva
34 no.11:101-103 N '58. (MIRA 12:1)

l. Iz khirurgicheskogo otdeleniya Gomel'skoy zheleznodorozhnay bol'nitay
i kafedry anatomii i fiziologii Gomel'skogo pedagogicheskogo instituta
(zav. otdeleniyem i kafedry - dots. V.I. Parmenov).

(ANESTHESIA, LOCAL
amobarbital potentiation (Rus))
(AMOBARBITAL, anesth. & analgesic
potentiation of local anesth. (Rus))

PARNENOV, V. I.

33559. K Voprosu Ob Ohshchinykh Rezektsiyakh Ponkogo Kishechnika. Khirurgiya, 1949,
No. 10, c. 60-63

SO: Letopis'nykh Statey, Vol. II, Moskva, 1949

PARMENOV, V. I.

Mbr., Surg. Depts., Gomel' and Unecha RR Hosps..

Belorussian RR, -cl948-c49-.

"Surgical Significance, Diagnosis, and Treatment of

Henoch's Purpura," Khirurgiya, No. 2, 1948;

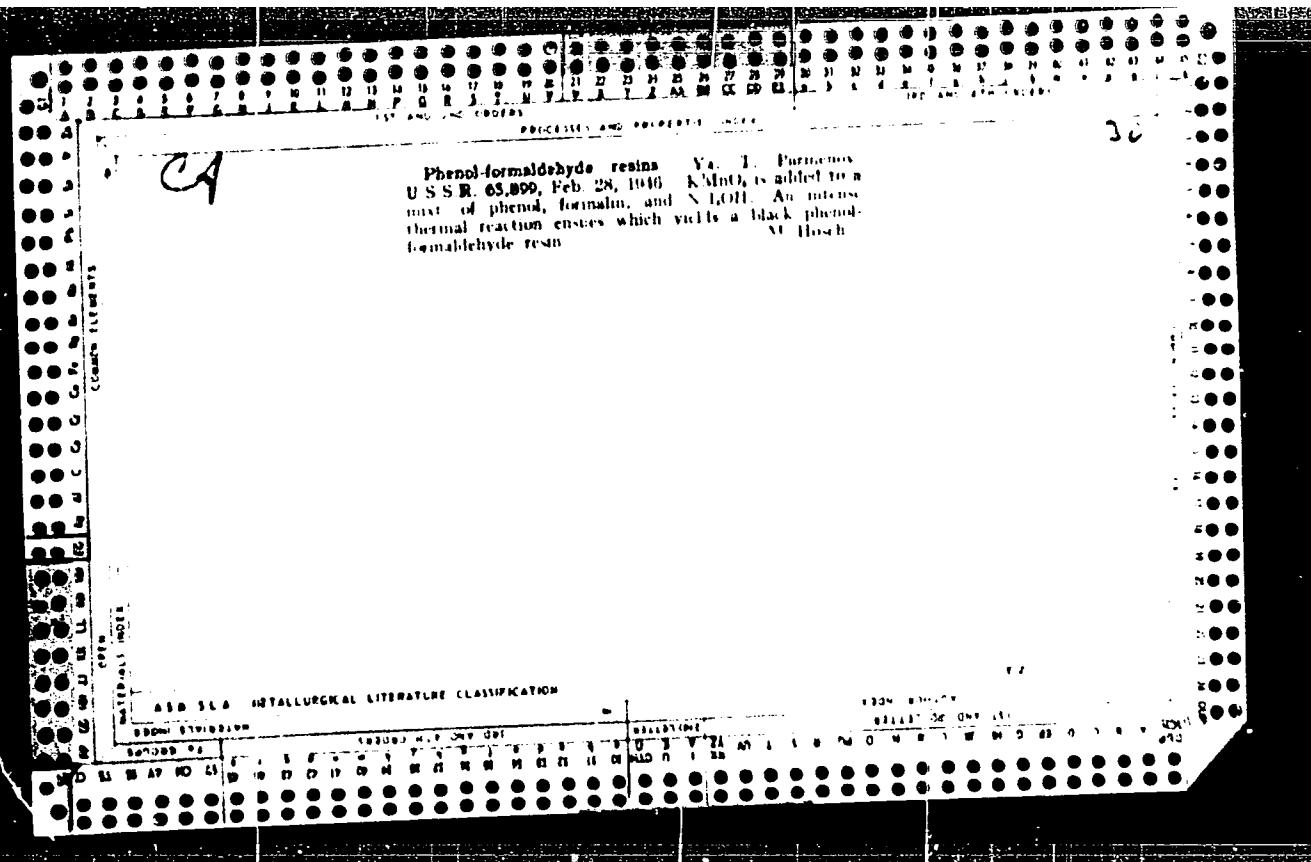
"Problem of Extensive Resections of the Small Intestine,"

ibid., No. 10, 1949.

PARMENOV, V.I.

Role of A.V. Vishnevskii's block in the treatment of shock in patients
with abdominal wounds associated with the strangulation of prolapsed
organs in the wounds. Eksper. khir. 5 no. 2:46-47 Mr-Ap '60.
(MIRA 14:1)

(ABDOMEN—WOUNDS AND INJURIES) (SHOCK)
(LOCAL ANESTHESIA)



KOZLOV, A.I.; PARMENOVA, I.V.

Economics and prospects of lignin charcoal production and of its
use in carbon bisulfide plants. Sbor. trud. NIIGS 12:232-243 '64.
(MIRA 18:3)

KOZLOV, A.I.; PARMENOV, I.V.

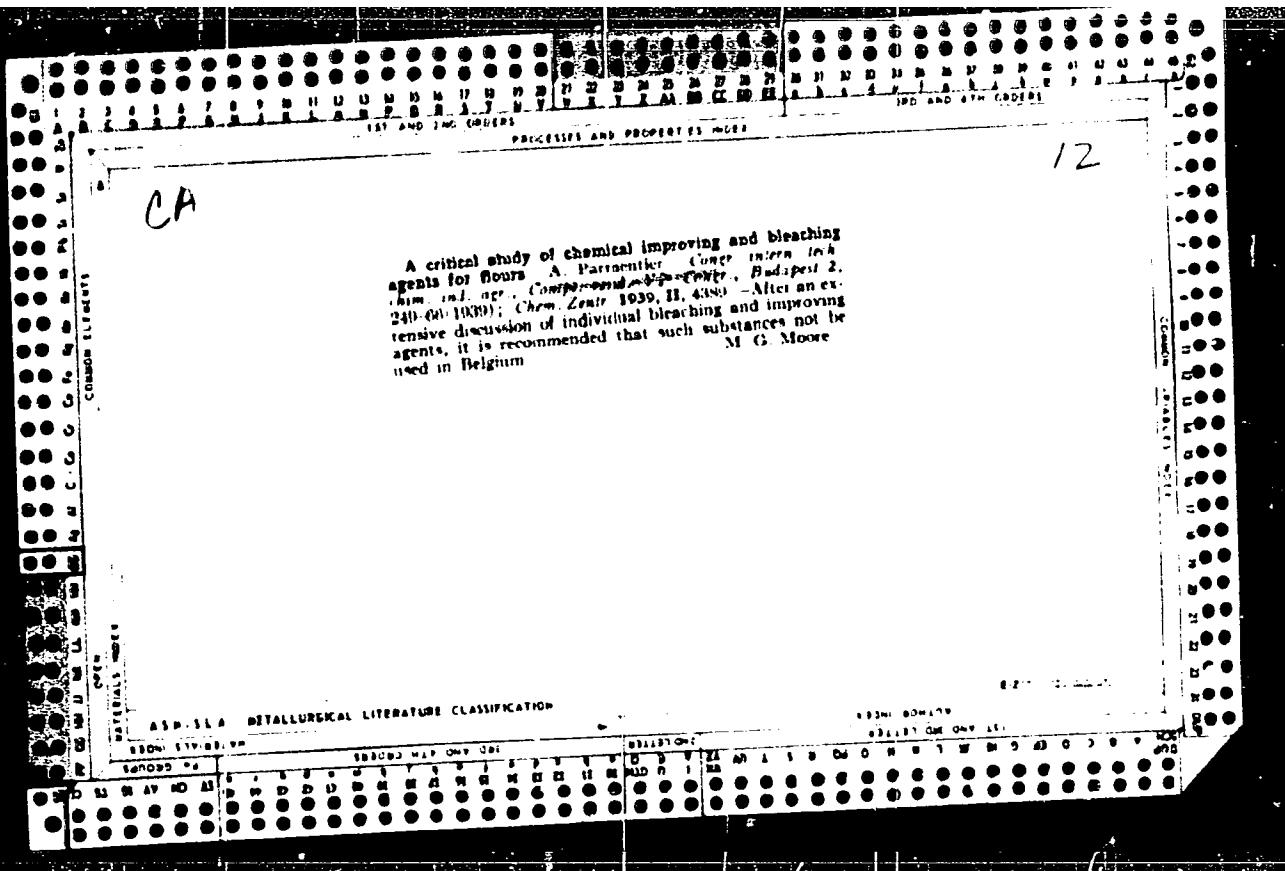
Economics and prospects for the production of lignin coal.
Gidroliz. i lesokhim. prom. 17 no.4 23-24 '64 (MIRA 17:7)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidrolyz-
nay i sul'fitno-spirtovoy promyshlennosti.

PARMIKHIN, N.

On a winter night. Pozh.delo 7 no.4:22 Ap '61. (MIRA 14:4)

1. Nachal'nik pozharnoy komandy, Magadanskaya oblast'.
(Magadan—Fire departments)



PARMON, A., uchitel'

Identification of superphosphate. Khim. v shkole 15 no.6:
82 N-D '60. (MIhA 13:11)

1. Stodolishchevskaya srednyaya shkola Smolenskoy oblasti.
(Phosphates)

L 24520-66 EWT(1)/T JK

ACC NR: AP6009527 (N) SOURCE CODE: UR/0413/66/000/005/0049/0049

INVENTOR: Bardyukov, L. I.; Rysev, M. A.; Shint, A. A.;
Kanykina, T. D.; Parmon, A. I.; Celler, A. A.25
B

ORG: none

TITLE: Method of stabilization of sticky material [announced by the
Institute of Physical and Organic Chemistry AN BSSR (Institut fiziko-
organicheskoy khimii AN BSSR)] Class 22, No. 179407SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki,
no. 5, 1966, 49

TOPIC TAGS: insect control, stabilization

ABSTRACT: An Author Certificate has been issued for a method of
stabilizing sticky material containing colophony for insect control.
To increase the stability of the material, the colophony is modified
at 170 to 300°C with 0.5--2% zinc chloride. [NT]

SUB CODE: 11, 07/

SUBM DATE: 22Jan65/

Card 1/1 B.L.G

UDC: 547.914.2-171:632-952

2

DOVVAR, S.A.; CHEPA, V.A.; Prinimali uchastiyel BUTKEVICH, V.A., inzh.;
PAJMON, G.Ya., inzh.

Friction and wear in the hot metal forming process with a chromized
die. Dokl. AN BSSR 8 no.10:671-674 O '64. (MIRA 18:3)

1. Fiziko-tehnicheskiy institut AN BSSR.

PARMON-K.R.

✓ Comparative energy of extraction of
leaves plants by inactive solvents. T. N.
Terent'eva, and K. P. Parmon. *Abz.*
S.S.R., Inst. Biol., Sbornik Nauch. Tr.
2-7.—Petr. ether exts only 5-10% of
crushed leaves of plants like sunflower,
quackgrass, whereas leaves of plants
cherry, or horsetail yield 20-35% of
under the same conditions. The chlorophyll
is extractable from plant of the vegetation period, at which the
tractability are some 50% over the sea-
son. The results indicate the presence of chlorophyll in the
bound with protein but also in a lipide
colloidal form, as indicated by
of Kraanovakil and Brin (*C.A.* 46, 9).
extractability of chlorophyll with petr.
ether in the season is explained by alteration in
chlorophyll-protein-lipide complex on
chlorophyll, protein, and lipide matter.
The binding in such complexes is believed
between the N-atoms of the pyrrole ring
groups of the protein.

3
Interest of var.
Golosov, M. V.
Neub. Botanik.
1958, No. 1.
Chlorophyll from
catt., sprouts of
the grass, oak
leaf. Chlorophyll
content of
at the very end
the values of ch.
The results in
plants not only
sol. form, and pos-
astrometric deter-
m.). Alteration of
ether with the
well between the
one hand and free
on the other hand
to take place be-
and the carbon
G. M. Kosolapoff

PARK, I. F.

de laev, G. M., David, M. J., Barton, A. L., "The relationship between the diffusion of chlorophyll in the protoplasm of plant cells and the rate of dissociating disulfide bond formation", Izv. Akad. Nauk SSSR, 1960, No. 1, p. 102, - 1961, - 1962.

See: "Park, I. F.", Lettovia T. Am. - Russ. Akad. Nauk, 1961, No. 1.

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PART II,
T. V. GOMOV, IAN/ SSR 1942, No. 3, 75-9.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239310002-0"

GODNEV, T.N.; TERENT'YEV, M.V.; PARMON, K.P.

Relative energy of chlorophyll extraction from different plants
by inactive solvents. Sbor.nauch.trud.Inst.biol.AN BSSR no.1:
3-7 '50. (MIRA 9:1)
(Chlorophyll) (Extraction (Chemistry))

MARSHAK, M.S.; PARMONOVA, E. G.; BORINSKAYA, E. N.

Treatment of hypertension in the night sanatorium in industrial project. Sovet. med. no.10:22-23 Oct 1951. (CLML 21:1)

1. Prof. Marshak. 2. Of the Clinic for Therapeutic Nutrition (Director -- Prof. M. I. Pevzner), Institute of Nutrition of the Academy of Medical Sciences USSR and the Medico-Sanitary Section of Krasnyy Proletariy Plant.

PARMOVA, Alena, MUDr.

Rupture of the trachea. Cesk. otolar. 6 no.3:134-135 June 57.

1. Oddeleni usni, nosni a krčni Krajske datske nemocnice v Brne,
primar MUDr Miroslav Kucera.
(TRACHEA, rupt.
traum. in child. (Cz))

PARMOVA, Alena

Correction of projecting ears. Cesk. otolar. 10 no.2:115-116 Ap '61.

1. Krajska detska nemocnica v Brne, usni, nosni a kreni oddeleni, prim.
MUDr. M. Kucera.

(EAR EXTERNAL surg)

PARMUZIN, I. Vn.

Some characteristics of spatial differentiation of natural complexes
at the northern limit of arboreal vegetation (lower reaches of the
Lena River). Dokl. Inst. geog. Sib. i Dal'. Vest. no. 6-60-66 '64.
(MIRA 18:10)

PARMUZIN, YU.

Steppes

In the steppe surrounding Dzhankoi. Vokrug s'ata, no. 2, 195.

9. Monthly List of Russian Accessions, Library of Congress, April 19⁵2 Unc1.

PARMUZIN, Yu.P.

Distribution and peculiarities of the karst of Siberia (author's summary).
Biul. MOIK. Otd. geol. 28 no. 4:10) '53. (MLRA 6:9)
(Siberia--Karst) (Karst--Siberia)

PARMZIN, Yu.P.

Paleogeography of Central Siberia during the Quaternary period. Vop.
geog. no.35:82-111 '54. (MIRA 7:12)
(Siberia, Central--Paleogeography)

PARNUZIN, Yu.P.

Problems in the study of karst of Siberia. Izv. Vses. geog. ob-va
B6 no.1:34-49 Ja-7 '54. (MIRA 7:2)
(Siberia--Karst) (Karst--Siberia)

ZOLOTAREV, M.A.; PODOPLICHKO, I.C.; FEDOROV, P.V.; VASIL'YEV, V.N.; IVANOVA, I.K.; GROMOV, V.I.; SOKOLOV, D.S.; ZHIRMUNSKIY, A.M.; PARMUZIN, Yu.P.; PLYUSNIN, I.I.; KATS, N.Ya.; GRICHUK, V.P.; YEFREMOV, Yu.K.; MOSKVITIN, A.I.; LEBEDEV, V.D.; TEODOROVICH, G.I.; ZVORYKIN, K.V.; MIKHNOVICH, V.P.; GALITSKIY, V.V.; MAKEYEV, P.S.; NIKIFOROVA, K.V.; GORDEYEV, D.I.; YANSHIN, A.L.; DUMITRASHKO, N.V.; SHANTSER, Ye.V.; P'YAVCHENKO, N.I.; FLEMOV, K.K.; PODOPLICHKO, I.G., doktor biologicheskikh nauk, professor.

Papers presented at the conference on the history of Quaternary flora and fauna in relation to the development of Quaternary glaciation.
Trudy Kom.chetv.per. 12:129-189 '55. (MIRA 9:4)

1.Gidrometeorologicheskaya sluzhba (for Zolotarev).2.Zoologicheskiy institut AN USSR (for Podoplichko).3.Institut okeanologii AN SSSR (for Fedorov).4.Bioticheskiy institut AN SSSR (for Vasil'yev).5.Komissiya po izucheniyu chetvertichnogo perioda AN SSSR (for Ivanova).6.Institut geologicheskikh nauk AN SSSR (for Gromov, Yanshin, Nikiforova, Moskvitin).7.Moskovskiy geologo-razvedochnyy institut imeni Ordzhonikidze (for Sokolov).8.Akademiya nauk Belorussskoy SSR (for Zhirmunskiy).9.Moskovskiy institut inzhenerov vodnogo khozyaystva (for Plyusnin).10.Geograficheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta (for Yefremov, Parmuzin).11.Moskovskiy gosudarstvennyy universitet (for Lebedev, Zvorykin).12.Institut nefti AN SSSR (for Teodorovich).13.Transproektkar'yer Ministerstva putey soobshcheniya (for Mikhnovich).14.Vsesoyuznyy aerogeologicheskiy trest (for Galitskiy).15.Sovet po izucheniyu proizvoditel'nykh sil AN SSSR (for Makeyev).

(Continued. on next card)

ZOLOTAREV, M.A.-----(continued) Card 2.

16. Laboratoriya gidro-geologicheskikh problem AN SSSR (for Gordeyev).
17. Institut geografii AN SSSR (for Dunitrashko, Grichuk).

(Paleontology) (Paleobotany) (Glacial epoch)

PARMUZIN, Yu. kandidat geograficheskikh nauk.

Prospecting for diamonds with an airplane. IUn.nat.no.9:28 D '56.
(Siberia--Diamond mines and mining) (MLRA 10:2)
(Aeronautics in geology)

PARMUZIN, Yu.P.

Exotic pebbles of Central Siberia. Uch.zap.Nosk.un. no.182:187-191
'56. (MLRA 10:5)

(Siberia--Pebbles)

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,
p 38 (USSR)

14-57-6-11896

AUTHOR: Parmuzin, Yu. P.

TITLE: Allogene Gravels of Central Siberia (Ekzoticheskaya
gal'ka Sredney Sibiri)

PERIODICAL: Uch. zap. Mosk. un-ta, 1956, Vol 182, pp 187-191

ABSTRACT: This study is an informative summary of the locations in Central Siberia where allogene gravels and detritus have been found in deposits of different ages (Permo-triassic, tuff-conglomerates, Mesozoic and Tertiary conglomerates, and Quaternary deposits). Concentrations of gravels are found in the river valleys and on the divides. After analyzing the composition, the distribution, and the roundness of the gravels, the author concludes that these are smaller and rounder, and that the less durable ones disappear, as one progresses northward from the southern mountains. When clays containing these allogene gravels, and located near

Card 1/2

14-57-6-11896

Allogene Gravels of Central Siberia (Cont.)

the headwaters of the left tributaries of the Katanga, were subjected to spore and pollen analysis, it was discovered that they belonged to the early Cretaceous time. Gravel deposits of the Viluy and Lower Tungusky basins were also found to contain Mesozoic pollen and spores. These discoveries led to the conclusion that continental Mesozoic deposits were once quite widespread in the southern part of Central Siberia. The action of early river systems contributed to the origin of allogene gravels, and the river complex was considerably different from what it is today; this fact is proved by the location of the gravels in the present river divides. Material was carried from south to north as early as the Mesozoic time. An outline of the geographical distribution of allogene gravels in Central Siberia is included.

Card 2/2

D. Timofeyev

TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZABELIN, I.M.; GVOZDETSkiY, N.A.; YEFREMOV, Yu.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.; SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, N.I.; PARMUZIN, Yu.P.; GERENCHUK, K.I.; MIL'EDOV, P.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.Ya.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIDZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

Discussion at the conference on studying land forms. Nauk. zap. L'viv.
un., 40:231-267 '57. (MIRA 11:6)
1. Lvovskiy gosudarstvennyy universitet (for TSYS', Gerenchuk, Dumin).
2. Laboratoriya aerometodov AN SSSR, Leningrad (for Sokolov,
Miroshnichenko, Petrov). 3. Institut geografii AN SSSR, Moskva (for
Armand, Sobolev). 4. Gosudarstvennyy universitet, Voronezh (for Mil'kov,
Tarasov). 5. Leningradskiy gosudarstvennyy universitet (for Chochia,
Isachenko, Kazakova). 6. Komissiya okhrany prirody AN SSSR, Moskva (for
Protopopov). 7. Gosudarstvennyy universitet, Chernovtsy (for Rybin).
8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev). 9. Go-
sudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for
Vasil'yeva). 10. Bol'shaya Sovetskaya Entsiklopediya (for Zabelin).
11. Gosudarstvennyy universitet, Tbilisi (for Saneblidze). 12. Moskovskiy
gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov,
Parmuzin, Nikolayev, Ignat'yev). 13. Torgovo-ekonomicheskiy institut,
L'vov (for Perevalov). 14. Gosudarstvennyy institut im. Kapsukasa,
V'il'nyus (for Basalikas). 15. Muzej zemlevedeniya Moskovskogo go-
sudarstvennogo universiteta (for Yefremov, Kozlov). 16. Srednyaya shkola
No.13, Kiyev (for Kara-Mosko). (Physical geography)

PARMUZIN, Yu.P.

Taxonomic units for dividing areas into physicogeographical regions.
Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:7'-91 '58.

(MIRA 12:2)

1. Moskovskiy universitet, geograficheskiy fakul'tet, kafedra fizi-
cheskoy geografii SSSR.

(Physical geography)

PARMUZIN, Yu.P.; SOLOVTSOVA, T.A.

Intrauniversity conference on division into natural regions. Nauch.
dokl.vys.shkoly; geol.-geog.nauki no.2:249-252 '58. (MIRA 12:2)
(Physical geography)

PARMUZIN, Yu.P.

Conference on the division of land into regions for agricultural purposes. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 13 no.2:277-281 '58. (MIRA 11:9)
(Geography, Economic)

3(7)

AUTHOR: Rubinshteyn, Ye. S.

SCOV/50-59-1-19/20

TITLE: Letter to the Editors (Pis'mo v redaktsiyu)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 1, pp 69-70 (USSR)

ABSTRACT: A paper by Yu. P. Parmuzin "On the Zonal Nature of the Cold Pole" published in the Informations of the All Union Society of Geography (Izvestiya Vsesoyuznogo geograficheskogo obshchestva) Nr 5, 1958, is criticized. This paper was published almost at the same time as the paper of the author entitled "The Question of Cold Poles" (Meteorologiya i hidrologiya, 1958, Nr 12), and may therefore cause confusion. The author asks to publish the following notes: 1. Parmuzin repeats the usual errors on the absolute minima in Verkhoyansk and Oymyakon; 2. Parmuzin handles the absolute minima of other stations as if they were measured whereas they were only computed; 3. Parmuzin underrates the influence of the ground relief on the magnitude of the absolute minima.

Card 1/1

Vol. 40, No 5, p. 69-70/1

PARMUZIN, Yu.P.

Inversion of forest vegetation in the Putorana Mountains. Bot.
zhur. 14 no.9:1303-1307 S '59. (MIRA 13:2)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Putorana Mountains--Forest ecology)

MAKUNINA, Aleksandra Aleksandrovna, dotsent; MIKHAYLOV, Nikolay Ivanovich, dotsent; PARMIZIN, Yuriy Pavlovich, starshiy nauchnyyсотрудник; Sоловьев, Aleksandr Ivanovich, dotsent; GOZDETSKIY, N.A., prof.. red.; YUDIN, G.P., red.; YERMAKOV, M.S., tekhn.red.

[Physical geography of the U.S.S.R.; selected lectures for correspondence school students attending geographical faculties of state universities] Fizicheskaya geografiia SSSR; izbrannye lektsii dlja studentov-zaochnikov geograficheskikh fakul'tetov gosudarstvennykh universitetov. Pod red. N.A.(vospodetskogo). Moskva, Izd-vo Mosk.univ. No.4. 1960. 167 p.

(MIRA 14:3)

1. Katedra fizicheskoy geografii SSSR (geograficheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta (for Makunina, Mikhaylov, Parmizin, Solov'yev). 2. Zaveduyushchij kabinetom istorii geografii Moskovskogo gosudarstvennogo universiteta; chlen-korrespondent Akademii pedagogicheskikh nauk (for Solov'yev). (Physical geography)

GROZDETSKIY, Nikolay Andreyevich, prof.; ZHUCHKOVA, Vera Kapitonovna,
dotsent; MIKHAYLOV, Nikolay Ivanovich, dotsent; PARMIZIN,
Yuriy Pavlovich, starshiy nauchnyy sotrudnik; MEDINA, Aleksandra
Yefimovna, kand.geograf.nauk; DANIL'CHENKO, O.P., red.;
GEORGIYEVA, G.I., tekhn.red.

[Physical geography of the U.S.S.R.; selected lectures for
correspondence-school students of geographical faculties of state
universities] Fizicheskaya geografia SSSR; izbrannye lektsii
dlia studentov-zaochnikov geograficheskikh fakul'tetov gosu-
darstvennykh universitetov. Pod red. N.A.Gvozdetskogo. Moskva,
Izd-vo Mosk.univ. No.5. 1960. 60 p.

(MIRA 14:2)

(Physical geography)

AMURSKIY, G.I.: PARMUZIN, Yu.P.

Traces of the ancient drainage network in the western part of
northern Siberia. Izv. vys. ucheb. zav.; geol. i razv. 4
no.4:33-43 Ap '61. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Siberia--Paleogeography)

PARMUZIN, Yu.P.

Northern sparse forests of Siberia as a group of landform zones.
Vest. Mosk. un. Ser. 5: Geog. 16 no. 3:22-30 My-Je '61.
(MIRA 14:5)

1. Kafedra fizicheskoy geografii SSSR Moskovskogo gosudarstvennogo
universiteta.
(Siberia--Physical geography)

PARMUZIN, Yu.P., otv.red.; KRIVOLUTSKIY, A.Ye., otv, red.

[Natural regionalization of the Soviet Far East in connection with regional planning] Voprosy prirodного районирования советского Дальнего Востока в связи с районной планировкой. Отв. ред. И.П.Пармузин и А.Е.Криволутский. Москва, Izd-vo Mosk. gos. univ. 1962. 308 p. (MIRA 16:6)

1. Primorskaya i Sakhalinskaya ekspeditsii.
(Soviet Far East--Economic geography)

MAKUNINA, Aleksandra Aleksandrovna, dots.; PARMUZIN, Yuriy Pavlovich,
starshiy nauchnyy sotr.; GVOZDETSKIY, N.A., prof., red.;
DANIL'CHENKO, O.P., red.; LAZAREVA, L.V., tekhn. red.

[Physical geography of the U.S.S.R.] Fizicheskaiia geografiia
SSSR; izbrannye lektsii dlja studentov-zaochnikov geograficheskikh
fakul'tetov gosudarstvennykh universitetov. Pod red. N.A.Gvozdet-
skogo. Moskva, Izd-vo Mosk. univ. No.6. 1962. 141 p.

(MIRA 16:2)

1. Moscow. Universitet. Nauchno-metodicheskiy kabinet po zaochnomu
i vechernemu obucheniyu.

(Physical geography)

PARMUZIN, Yu.P.

Conference on current problems in taiga studies in connection with
the prospects for its development. Vest. Mosk. un. Ser. 5: Geog.
19 no.1:82-83 Ja-F '64. (MIRA 17:4)

PARMUZIN, Yu.P.; KIRILLOV, M.V.; SHCHERBAKOV, Yu.A.

Some results of dividing central Siberia and Krasnoyarsk province into
physicogeographical regions. Vop. geog. no.55:91-106 '61.
(MIRA 15:1)

(Siberia, Eastern--Physical geography)

PARMUZIN, Yu.P.

Far East and its division into physicogeographical regions. Vop
geog. no.55:117-130 '61. (MIRA 15:1)
(Soviet Far East--Physical geography)

PARMUZIN, Yuriy Pavlovich; LYUBIMOV, I.M., red.; KIR'YANOVA, Z.V.,
mlad. red.

[Central Siberia; outline of its nature] Srednaja Sibir';
ocherk prirody. Moskva, Izd-vo "Mysl'", 1964. 308 p.
(MIRA 17:6)

JÄNES, Harri; PÄRN, A., red.

[Industrial hygiene] Tööstushügieen. Tallinn, Kirjastus
"Eesti Raamat", 1965. 453 p. [In Estonian] (MIRA 13:12)

REIMAN, A., spets. red.; BOGOVSKI, P., red.; MASK, M., red.;
KORGE, K., red.; LOOGNA, G., red.; PAIN, A., red.;
VAHTRE, I., tekhn. red.

[Manual on hygiene] Tervishoiu kasiruumat. Tallin, ^{Eesti}
riiklik kirjastus. Vol.2. 1962. 892 p. (MIRA 16:7)
(HYGIENE)

KOOK, Oskar; VILBASTE, Gustav; PARN, A., red.; LUMET, E., tekhn. red.

[Medicinal plants of the Estonian S.S.R.] Eesti NSV ravimtaimed.
Tallinn, Eesti Riiklik Kirjastus, 1962. 196 p. (MIRA 16:8)
(ESTONIA—BOTANY, MEDICAL)

BOGOVSKI, P., red.; KASK, M., red.; KORGE, K., red.; LOOGNA, G., red.;
REIMAN, A., spets. red.; PARN, A., red.; VAHTRE, I., tekhn. red.

[Manual on hygiene] Tervishoiu kasiraamat. Tallinn, Eesti riiklik
kirjastus. Vol. 1961. 899 p.
(HYGIENE)

RANNAK, Eero, dots.; PARN, A., red.; LAUL, U., tekhn. red.

[Foodstuffs and health] Toidumined ja tervis. Teine,
taiendatud trukk. Tallinn, Eesti riiklik kirjastus, 1961.
258 p. (MIRA 15:5)

(NUTRITION)

KÖRGE, Kuno; FARN, A., red.; VAHTRE, I., tekhn. red.

[Problems of the reactivity of the organism and desensitization therapy] Organismi reaktiivsuse ja desensibiliseeriva ravi probleeme. Tallinn, Eesti Riiklik Kirjastus, 1963. 321 p. (MIA 16:12)
(ALLERGY) (EOSINOPHILES)

TALLMEISTER, Eugen; LAANES, Selma; LENZNER, Akivo; JAAKMEES,
Helga; PÄRN, A., red.

[Laboratory work in medical microbiology] Laboratoorsead
tööd meditsiinilises mikrobioloogias] [By] E.Tallmeister
ja teised. Tallinn, Eesti Riiklik Kirjastus, 1964. 302 p.
[In Estonian] (MIRA 17:6)

KERES, Leida; KAARI, Haldja; PARN, A., red.; KASEMETS, O., tekhn. red.

[Manual for pediatricians] Juhendeid lastearstile. Tallinn,
Eesti riiklik kirjastus, 1962. 331 p. (MIRA 15:5)
(PEDIATRICS)

BOGATSKIY, A.V.; GORYACHUK, N.A.; PARNAK, G.I.

Synthesis and transformations of alkyl- α -alkoxyethylmalonic esters. Part 1: Methyl- α -methoxyethylmalonic ester. Zhur. ob. khim. 32 no.5:1498-1503 My '62. (MIRA 15:5)

1. Odesskiy gosudarstvennyy universitet imeni I.I.Mechnikova.
(Malonic acid)

PÄRNAMÄGI, E.; AVARSOO, E., red.; ODAMUS, A., tekhn. red.

[The Estonian large white swine breed and its productivity]
Eesti suure valge seatõu jäödlusest ja arengust. Tallinn,
Eesti Riiklik Kirjastus, 1962. 171 p. (MIRA 17:1)
(Estonia—Swine breeds)

PARNAMÄGI, H.

Breeding large white swine in Estonia.

SOTSIALISTLIK POLLUMAJANDUS. (Pöllumajanduse Ministeerium) Tallinn,
Estonia. Vol. 13, no. 3, March 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11,
November 1959.

Uncl.

PARNAMAGI, H.

The work of swine-breeding farms. p.503

SOTSIALISTLIK PÖLLEMÄJANDUS. Tallinn, Estonia. Vol. 14, no. 11, June 1959

Monthly List of East European Acquisitions (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

PASZLAROWS, I,L.

The sorting process of aeolian of sands exemplifie. by the dunes in the Rzeka regions. p.33

ZASPOISNO GEOGRAFICZE. (Polskie Towarzystwo Geograficzne) Wroclaw, Poland,
Vol. 39, no. 1, 1959

Monthly List of East European Acquisitions (EEAI) LC , Vol. 1, no. 2, No . 1 "0

Incl.

PARNAS, A.L.

Comments on M.A.Gol'dshtik's article "Heat transfer of a thin wire heated by alternating current in a transverse air flow." Inzh.-fiz. zhur. 6 no.8:133-137 Ag '63. (MIRA 16:10)

1. Institut teplo- i massoobmena AN BSSR, Minsk.

(N)

L 12111-66

EWT(1)/ETC(F)/EPF(n)-2/EVG(m)

WW/GS/RM

ACC NR: AT6001765

SOURCE CODE: UR/0000/65/000/000/0025/0029

AUTHOR: Parnas, A. L.54
B+1

ORG: None

21, #4, 55

TITLE: Unsteady-state convective heat transfer of an oscillating body

SOURCE: AN BSSR, Institut teplot- i massoobmena, Voprosy nestatsionarnogo perenosa tepla i massy (Problems of nonstationary heat and mass transfer). Minsk, Nauka i tekhnika, 1965, 25-29

TOPIC TAGS: convective heat transfer, heat transfer rate, pulse rate

ABSTRACT: Heat transfer of a body in a pulsating stream of gas is of a quasi-steady state character if the amplitude and frequency of the velocity pulsations are not great. In this case, the effect of the pulsation can be taken into account in the dimensionless equation by the addition of a supplementary group containing the magnitude of the amplitude of the oscillation velocity, for example, v/V_0 or $Re_v = vd/v$. With an increase in the frequency and amplitude of the oscillations, substantial characteristics of an unsteady state condition make their appearance, and the quasi-steady state is destroyed. It is demonstrated mathematically in the article that the magnitude of the acceleration in

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L 12114-66

ACC NR: AT6001765

the case of transverse vibrations is, as a rule, considerably less than the value of the acceleration with longitudinal vibrations. In particular, it can be shown that the ratio of these two magnitudes is approximately equal to $1/2 \times v/v_0$. Orig. art. has: 10 formulas and 1 figure.

SUB CODE: 20/ SUBM DATE: 02Sep65/ ORIG REF: 005/ OTH REF: 002

Card 2/2

L 13456-66 EWT(1)/EWP(n)/ETC(F)/EPF(n)-2/EWG(m)/EWI(d)/PCS(k)/EWA(i) WW
ACC NR: AT6001766 SOURCE CODE: UR/0000/65/000/000/0030/0035

AUTHOR: Parass, A. L.

ORG: none

TITLE: Experimental study of nonsteady-state heat transfer of a cylinder in a transverse flow of air 21,44,5 55 BT/1

SOURCE: AN BSSR. Institut tepli- i massobmena. Voprosy nestatsionarnogo paronosa tepla i massy (Problems of nonstationary heat and mass transfer). Minsk, Nauka i tekhnika, 1965, 30-35

TOPIC TAGS: heat transfer, heat exchange, air breathing propulsion

ABSTRACT: An experimental study was made of the nonsteady-state heat transfer between hot air (70—80°C) and cylinders with 8.4 and 2.6 mm diameters in a transverse flow of 1—8 m/sec. The temperature variation was measured by means of a resistance thermometer in the form of windings on the cylinder. The ratio was plotted of Nu/Nu_0 , where Nu vs. $Ho = Vt/d$, where V is the velocity; d , cylinder diameter; and t is time. Establishment of the steady state regime occurred when $Ho < 10$. The graph showed fluctuations of Nu/Nu_0 with a period of 5 Ho . These fluctuations in heat transfer are evidently caused by

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L 13456-66

ACC NR: AT6001766

O
periodic vortex shedding from the cylinder. Orig. art. has 2 formulas
and 2 figures. [PV]

SUB CODE: 13,20 SUBM DATE: 02Sep65/ ORIG REF: 006/ OTH REV: 005

ATD PRESS: 4186

Card 372

PARNAS, A.L., kand.tekhn.nauk

Calculating natural vibration frequencies of shafts and
beams having narrow lateral cutouts. Vest.mashinostr. 4th
no.11:3.-35 N '65. (MIRA 18:1*)

PARNAS, I., prof., doktor med.nauk

Valuable scientific study ("Chronic brucellosis" by N.D. Beklemishev.
Reviewed by I.Parnas). Vest.AN Kazakh.SSR 16 no.3:91-93 Mr
'60. (MIRA 13:6)

1. Direktor Instituta meditsiny truda i gigiyeny sela, Lyublin.
Chlen komiteta ekspertov po brutsellezu pri Vsemirnoy organizatsii
zdravookhraneniya.
(BRUCELLOSIS) (BEKLEMISHEV, N.D.)

PARNAS, A. L.

"The experimental study of the influence of an unsteady flow on the heat transfer of a cylinder in a transverse air flow."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, --1
May 1964.

Inst of Heat & Mass Transfer, AS BSSR.

PAnNes, A.

Effect of the temperature factor on the hydrodynamic resistance
of a cylinder in a lateral air flow. Inzh.-fiz. zhur. 7 no.5:45-51
(KhM 17:6)

• Institute of Hydromechanics, Minsk.

ACCESSION NR: AP4037997

S/0170/64/000/005/0045/0051

AUTHOR: Parnas, A. L.

TITLE: Effect of the temperature factor on the hydrodynamic resistance of a cylinder in a cross air flow

SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 5, 1964, 45-51

TOPIC TAGS: hydrodynamic resistance, cross air flow, friction drag, nonisothermal air flow

ABSTRACT: Results are given for an experimental investigation of the hydrodynamic resistance of platinum, nichrome, and chromel wires 0.05 to 0.40 mm in diameter in a cross air flow with velocities of 3 to 20 mm/sec, at surface temperatures of the wires t_w ranging from 20 to 800°C, an air temperature $t_f = 20^\circ\text{C}$, and a range of Re_f numbers of 10 to 500. It was found that the hydrodynamic resistance of a cylinder exchanging heat with the air flow around it differs from the resistance under isothermal conditions. Friction drag of the cylinder in air flow having different parameters t_w/t_f was calculated from solutions of equations

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L12014-65 AFRL/AS(EP)-2/AEDC(a) ACCESSION NR: AFRL/7822	EPF(1)/EPF(c) AFRL/AS(EP)-2/AEDC(a) SSD/SSD	EPF(n)-2/EPF/ AFRL/AS(EP)-2/AEDC(a) SSD/SSD	/EPA(bb)-2/EWA(1) S/0170/64/000/310/0037/0044	Pr-4/Ps-4/Pu-4 B
AUTHOR: Farmer, A. L.				
TITLE: Experimental investigation of the effect of an unsteady air stream on heat transfer from a cylinder in transverse flow				
SOURCE: Inzhenerno-fizicheskiy zhurnal, no. 10, 1964, 37-41				
TOPIC TAGS: heat transfer, Reynolds number, Nusselt number, vibration frequency, forced flow				transverse flow,
ABSTRACT: Heat transfer data are obtained experimentally from a cylinder in transverse forced air flow, subject to low-frequency oscillations of three types: transverse and longitudinal oscillations induced on the cylinder, and sinusoidal fluctuations superimposed on the uniform air stream with the cylinder held fixed. The cylinders were made of copper wires, 0.1 mm in diameter, wound around paper cylinders 3-8 mm in diameter, 25-30 mm long, placed in a glass tube, and connected to a vibrator. The air stream was at 20°C and the copper wires heated (joule heating) to 100°C. The nondimensional heat transfer from the cylinder was expressed parametrically — $Nu/Nu_0 = f(R, Sh, a/d)$, where $Sh = fd/V$, a, f — amplitude and frequency of oscillations, d — cylinder Card 1/3				

L12006-63

ACCESSION NR: APL047822

diameter. The experiments were conducted in the flow range $1 < V < 1.5$ m/sec, amplitude $0 < a < 7$ mm, and frequency $0 < f < 35-50$ cycles. For the case of the cylinder oscillating perpendicular to the air stream, Nu versus f curves show maxima proportional to the vibration amplitude. The maxima of Nu/Nu_0 curves seem to cluster around $Sh = 0.19$. Within an 8% root-mean-square deviation the data could be represented by the empirical relationship

$$Sh = 0.19 + 0.26(d/s) - 0.156(d/s)^2.$$

For the case of cylinder oscillations parallel to the air stream the following empirical expression is obtained | 0,

$$\frac{Nu}{Nu_0} = \begin{cases} 0, & Sh < 0.06 \\ (3.5Sh - 0.21)(a/d), & 0.06 < Sh < 0.14 \end{cases}$$

For $a/d > 0.5$ the heat transfer curves show no maxima. For $a/d < 0.5$ maxima similar to the transverse vibration case are observed. For the last case, 0-120 cps sinusoidal fluctuations were superimposed on the air stream. Increasing the fluctuation frequency is shown to increase the heat transfer rate to a maximum at $f \approx 70$ cps, corresponding to the acoustical properties of the system. This maximum increases with increase in the cylinder diameter. Orig. art. has 5 formulas and 4 figures.

Card 2/3

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